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FIELD MAINTENANCE PRINT SET

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B-TC-MS400-0-DBU
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MEMORY UPGRADE
MEMORY UPGRADE (IDD ONLY)
MEMORY UPGRADE (PL)
2/4 MB MEMORY OPTION (IDD ONLY)
2/4 MB MEMORY OPTION
2/4 MB MEMORY OPTION (PL)
2/4 MB MEMORY OPTION

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

MS400-AA
MS400-BA

MS400
FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION

PRINT SET PART
NUMBER MP-02430-01
REV A1

FILE NAME: TC-MS400-0-DBUA

REVISION HISTORY		REV.	A	DRN.	DATE	TITLE	SIZE CODE	NUMBER	REV.
ECO NUMBER	INITIAL			PAUL GAGNE	05-FEB-87	MEMORY UPGRADE	B TC	MS400-0-DBU	A
				CHK'D D. HEALY	19-FEB-87				
				DES. ENG. L. KIZINA	19-FEB-87				
				RESP. ENG. G. LORD	19-FEB-87				
				FIELD SERVICE M. RIOPEL	19-FEB-87				
DATE				TOP DOC. B-DD-MS400-0-DBU					
							SHEET 1 OF 1		

REV. A
NUMBER MS400-0-DBU
SIZE CODE B TC

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					AA A1	BA A1
1	1 B-DD-5416802-0-0	54-16802-AA		MS400-AA 2MB MEM,SURFACE MNT,256K	1	-
2	2 B-DD-5416802-0-0	54-16802-BA		MS400-BA 4MB MEM,SURFACE MNT,256K	-	1
3	3 SEE NOTE	37-00689-25		PKG UNIVERSAL MODULE	1	1

3 NOTE: REFERENCE PACKAGE SPEC, PA-3700689-25

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A		DRN: PAUL GAGNE		DIGITAL	
ENG:	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 15-SEP-86		TITLE PARTS LIST		
---	INITIAL	A	[A] AA,BA		CHK'D: D. HEALY		MEMORY UPGRADE		
			[B]		DATE: 25-FEB-87				
			[C]		DES.ENG: L. KIZINA		DOCUMENT NUMBER		
			[D]		DATE: 25-FEB-87		SIZE CODE NUMBER REV		
			[E]		RESP.ENG.: G. LORD		K PL MS400-0-DBP A		
			[F]		DATE: 25-FEB-87		RELEASE DATE: 25-FEB-87		
			[H]		MFG.ENG: D. TAYLOR		RELEASE STATUS: RELEASED		
			[J]		DATE: 25-FEB-87				
		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
		MS400				K-PL-MS400-0-DBP		MLA0754A.PLS 13	
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DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS	
		5416802-AA	12 MB MEMORY OPTION	1A1	A2
		5416802-BA	14 MB MEMORY OPTION	1A1	A2
1D-UA-5416802-0-0	2		UNIT ASSEMBLY	1A	
1D-UA-5416802-1-0	2		UNIT ASSEMBLY		A
1B-CS-5416802-0-0	11		CIRCUIT SCHEMATICS	1A	A
1K-PL-5416802-0-DBP	3		PARTS LIST	1A	A
1K-PC-5416802-0-DBC			P.C. DATA BASE	1D	A
1K-CS-5416802-0-DBX			SCHEMATIC DATA BASE	1A	A
		5016801-01	ETCHED CIRCUIT BOARD	1D1	D2
1K-DD-5016801-0-0	1		DRAWING DIRECTORY	1A	A

NOTES:

1A 1A
R
E
V

R
E H E I I
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S T I T T
I O I N
O R I O
N Y

D 11 1
A 10 0
T 1 /
E 18 8
16 6

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DRN: J. CUNNINGHAM

DATE: 10/7/86

d i g i t a l

CHK'D: L. HAYWOOD

DATE: 10/7/86

TITLE
2/4 MB MEMORY OPTION

DES.ENG.: G. LORD

DATE: 10/7/86

SHEET 1 OF 1 EDIT:
3

RESP.ENG.: G. LORD

DATE: 10/7/86

DOCUMENT NUMBER

DD FILENAME: 5416802A.DDF

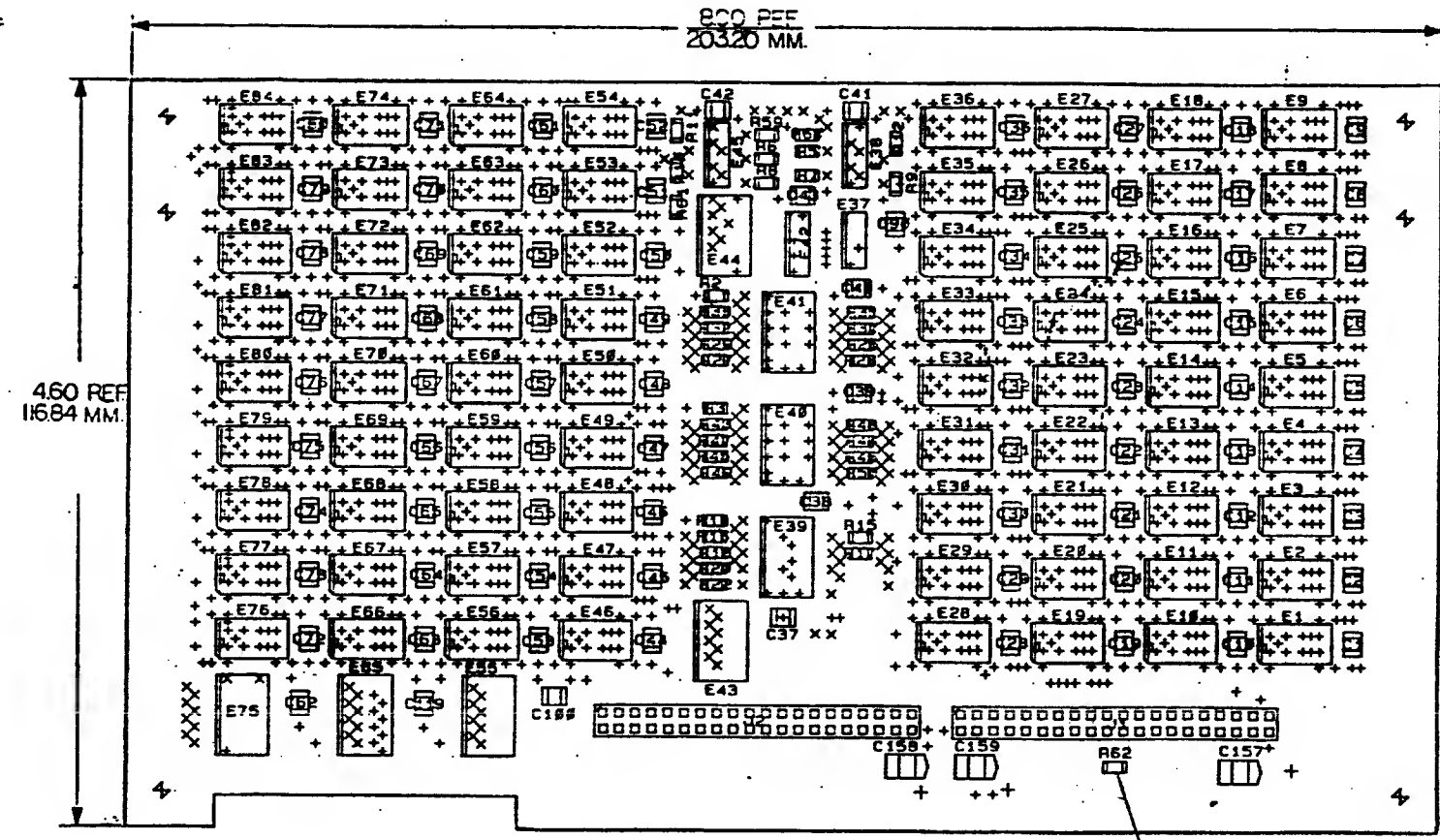
MFG.ENG.: D. TAYLOR A2

DATE: 1/20/86

SIZE CODE NUMBER REV
K DD 5416802-0-0 A

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SIDE VIEW



SEE NOTE 1

NOTES: LR62 IS INSTALLED ONLY ON BA (4MB) VARIATION

DESIGNED BY L. HAYWOOD	DATE 7-2-86	TITLE 2/4 MB MEMORY OPTION
CHECKED BY J. CUNNINGHAM	DATE 7-2-86	
APPROVED BY G. Lord L. 23	DATE 11-25-86	DOCUMENT NUMBER DUA 5416802-0-0
APPROVED BY G. Lord by 25	DATE 11-25-86	
APPROVED BY Daniel J. 21	DATE 2-10-87	REV A
K-00-5416802-0-0		2/1

REVISION HISTORY	DATE
ECO NUMBER	1986
INIT	
REV	A

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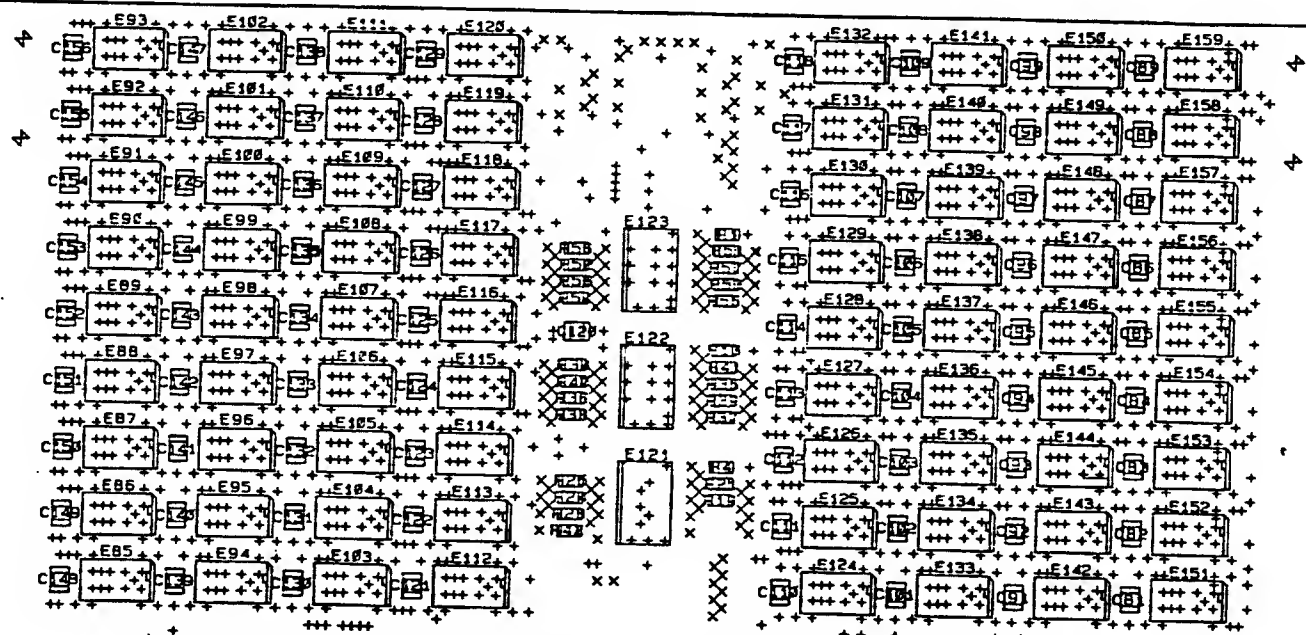
1986 DIGITAL EQUIPMENT CORPORATION

0-0-2089175

SIDE 2 VIEW

600 REF
20320 MM.

460 REF
11684 MM.



REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE 2/4 MB
MEMORY OPTION

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
SCALE 2 1	SHEET 2	OF 4

8

C-0-2099145
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1000 1171

6

5

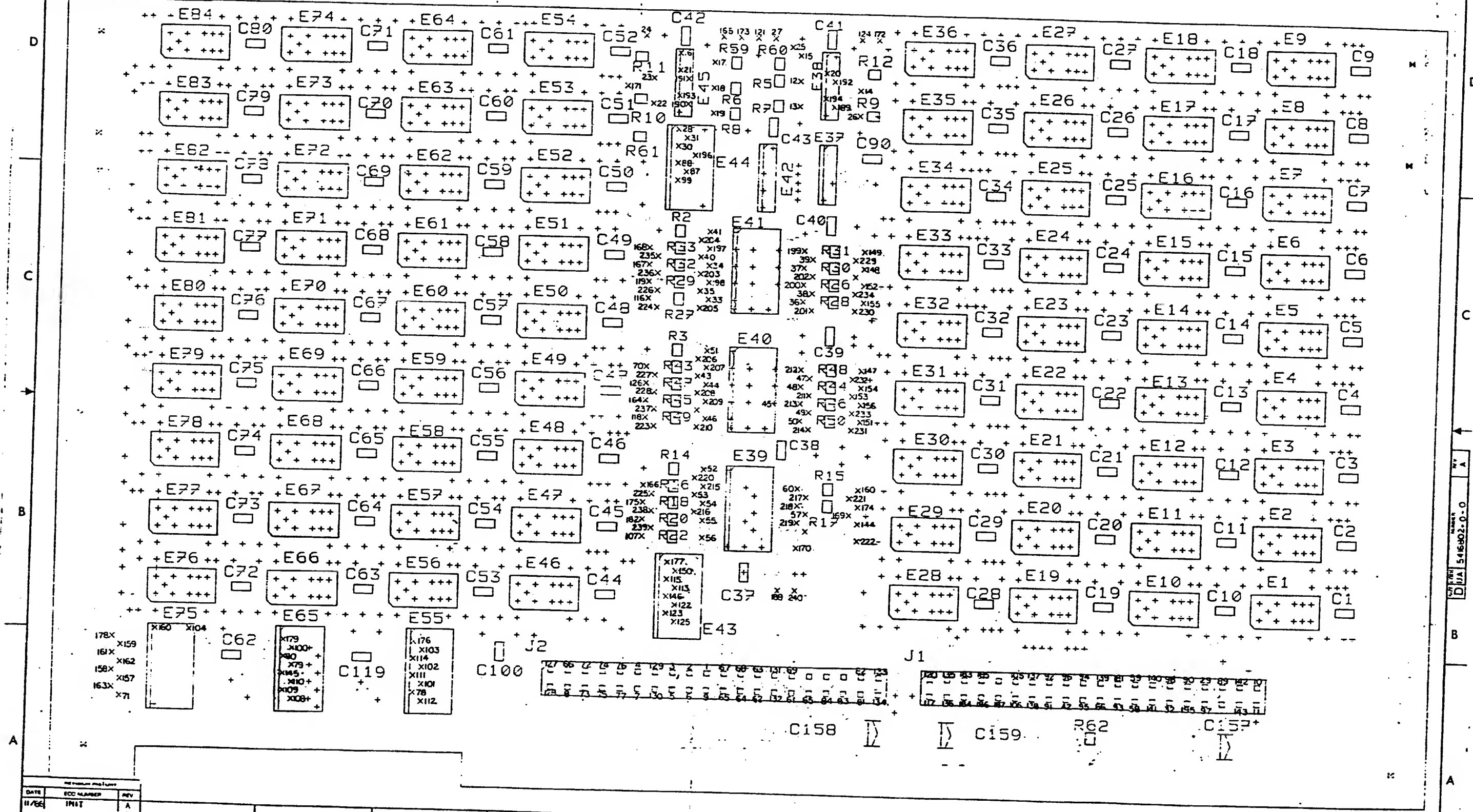
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DATE	ECO NUMBER	REV
11/86	INIT	A

2/4 MB
MEMORY OPTION

DOCUMENT NUMBER		REV
5416802-0-0	1	A
SCALE 4/1		SHEET 3 OF 4

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1965 DIGITAL EQUIPMENT CORPORATION

(DIMENSIONS ARE GIVEN RELATIVE TO "H" MASTER 0)

ASSOCIATED PIN ID	X	Y	SIGNAL NAME	LOCATION CODE
J2.17	6.900	2.400	BDAL17 H	1
J2.15	7.000	2.400	BDAL19 H	2
J2.11	7.100	2.400	BDAL21 H	3
J2.16	7.100	2.300	BDAL23 H	4
J2.18	7.000	2.300	BDAL20 H	5
J2.12	7.300	2.300	BDAL18 H	6
J2.4	7.700	2.300	BDAL22 H	7
J2.20	7.900	2.300	BDAL30 H	8
J1.39	6.900	2.300	BDAL16 H	9
J1.40	3.700	2.300	+5VA	10
E38.4	6.450	5.900	E38.4	11
E38.7	6.400	5.750	E38.7	12
E38.12	6.190	4.950	E38.12	13
E38.1	6.450	6.050	E38.1	14
E45.1	7.150	6.050	E45.1	15
E45.15	6.950	6.000	E45.15	16
E45.12	6.950	5.850	E45.12	17
E45.9	6.950	5.700	E45.9	18
E45.3	6.300	5.950	E45.3	19
E45.7	7.300	5.750	E45.7	20
E45.4	7.300	5.900	E45.4	21
E11.2	7.350	6.150	NRAS40 L	22
E2	6.500	6.100	E2	23
E38.9	6.100	5.700	E38.9	24
E7.2	6.600	6.150	E7.2	25
NR4.1	7.150	5.600	NRAS31 L	26
J1.33	4.000	2.400	NR4.1	27
E4.3	7.150	5.500	E4.3	28
NR4.2	7.100	5.500	NR4.2	29
J1.30	4.200	2.300	NR4.2	30
NR4.9	6.950	4.600	NRAS L	31
NR4.5	6.950	4.800	NR4.5	32
R29.1	7.000	4.650	R29.1	33
E41.12	6.400	4.600	E41.12	34
E41.16	6.400	4.800	E41.16	35
R26.1	6.350	4.800	R26.1	36
R31.1	6.350	4.850	R31.1	37
R33.1	7.000	4.850	R33.1	38
E41.1	6.950	5.000	E41.1	39
J1.18	4.800	2.300	J1.18	40
NR4.3	7.000	4.150	NRAS42 H	41
NR4.5	6.950	4.100	NR4.5	42

ASSOCIATED PIN ID	X	Y	SIGNAL NAME	LOCATION CODE
E40.14	6.450	4.300	E40.14	43
E40.9	6.950	3.900	E40.9	44
NR4.1	6.350	4.150	NR4.1	45
E40.16	6.350	4.100	E40.16	46
NR4.12	6.400	1.950	NR4.12	47
E40.1	6.450	4.100	E40.1	48
E39.1	6.950	3.900	E39.1	49
E39.5	7.000	3.400	E39.5	50
E39.7	6.450	3.400	E39.7	51
E39.9	6.950	3.300	E39.9	52
E39.1	6.450	3.200	E39.1	53
E17.1	6.350	3.350	E17.1	54
E17.2	4.400	2.300	E17.2	55
E39.18	6.400	2.400	E39.18	56
J2.30	6.400	3.500	J2.30	57
J2.26	6.600	2.300	J2.26	58
J2.25	6.600	2.400	J2.25	59
J2.22	6.700	2.400	J2.22	60
J2.3	7.200	2.100	J2.3	61
J2.21	6.800	2.400	J2.21	62
J2.23	6.700	2.400	J2.23	63
J2.29	6.400	2.400	J2.29	64
NR4.2	7.300	4.200	NR4.2	65
E75.9	10.300	2.200	E75.9	66
J2.5	7.600	2.200	J2.5	67
J2.6	7.500	2.300	J2.6	68
J2.7	7.500	2.400	J2.7	69
J2.8	7.400	2.300	J2.8	70
J2.9	7.500	2.300	J2.9	71
J2.10	7.400	2.400	J2.10	72
E55.8	8.600	2.250	E55.8	73
E65.5	9.300	2.400	E65.5	74
E65.4	9.350	2.450	E65.4	75
J2.38	6.000	2.300	J2.38	76
J2.37	6.100	2.400	J2.37	77
J2.36	6.100	2.400	J2.36	78
J2.35	6.100	2.400	J2.35	79
J2.31	6.300	2.400	J2.31	80
E11.22	4.600	2.300	E11.22	81
E44.6	7.100	5.350	E44.6	82
E44.5	7.100	5.400	E44.5	83
E44.4	3.900	2.400	E44.4	84
J1.35	4.100	2.400	J1.35	85
J1.31	4.100	2.400	J1.31	86
J1.16	4.900	2.300	J1.16	87
J1.15	4.900	2.400	J1.15	88
J1.24	4.500	2.300	J1.24	89

ASSOCIATED PIN ID	X	Y	SIGNAL NAME	LOCATION CODE
E40.14	6.450	4.300	E40.14	90
E40.9	6.950	3.900	E40.9	91
NR4.1	6.350	4.150	NR4.1	92
E40.16	6.350	4.100	E40.16	93
NR4.12	6.400	1.950	NR4.12	94
E40.1	6.450	4.100	E40.1	95
E39.1	6.950	3.900	E39.1	96
E39.5	7.000	3.400	E39.5	97
E39.7	6.450	3.400	E39.7	98
E39.9	6.950	3.300	E39.9	99
E39.1	6.450	3.200	E39.1	100
E17.1	6.350	3.350	E17.1	101
E17.2	4.400	2.300	E17.2	102
E39.18	6.400	2.400	E39.18	103
J2.30	6.400	3.500	J2.30	104
J2.26	6.600	2.300	J2.26	105
J2.25	6.600	2.400	J2.25	106
J2.22	6.700	2.400	J2.22	107
J2.3	7.200	2.100	J2.3	108
J2.21	6.800	2.400	J2.21	109
J2.23	6.700	2.400	J2.23	110
J2.29	6.400	2.400	J2.29	111
NR4.2	7.300	4.200	NR4.2	112
E75.9	10.300	2.200	E75.9	113
J2.5	7.600	2.200	J2.5	114
J2.6	7.500	2.300	J2.6	115
J2.7	7.500	2.400	J2.7	116
J2.8	7.400	2.300	J2.8	117
J2.9	7.500	2.300	J2.9	118
J2.10	7.400	2.400	J2.10	119
E55.8	8.600	2.250	E55.8	120
E65.5	9.300	2.400	E65.5	121
E65.4	9.350	2.450	E65.4	122
J2.38	6.000	2.300	J2.38	123
J2.37	6.100	2.400	J2.37	124
J2.36	6.100	2.400	J2.36	125
J2.35	6.100	2.400	J2.35	126
J2.31	6.300	2.400	J2.31	127
E11.22	4.600	2.300	E11.22	128
E44.6	7.100	5.350	E44.6	129
E44.5	7.100	5.400	E44.5	130
E44.4	3.900	2.400	E44.4	131
J1.35	4.100	2.400	J1.35	132
J1.31	4.100	2.400	J1.31	133
J1.16	4.900	2.300	J1.16	134
J1.15	4.900	2.400	J1.15	135
J1.24	4.500	2.300	J1.24	136

ASSOCIATED PIN ID	X	Y	SIGNAL NAME	LOCATION CODE
J1.19	8.700	2.400	J1.19	137
J1.20	4.700	2.300	J1.20	138
J1.17	4.800	2.400	J1.17	139
J1.34	4.000	2.300	J1.34	140
J1.24	4.200	2.400	J1.24	141
E14.7	7.150	5.300	E14.7	142
E65.3	9.300	2.500	E65.3	143
E55.7	8.550	2.300	E55.7	144
E55.5	8.550	2.400	E55.5	145
E55.3	8.600	2.350	E55.3	146
E75.19	5.100	2.600	E75.19	147
J1.11	5.100	2.400	J1.11	148
J1.12	5.100	2.400	J1.12	149
R22.2	7.300	3.200	R22.2	150
E65.9	9.300	2.200	E65.9	151
E65.8	9.350	2.250	E65.8	152
E65.7	9.300	2.300	E65.7	153
E55.6	8.600	2.350	E55.6	154
E55.4	8.550	2.200	E55.4	155
NR4.3	7.100	2.900	NR4.3	156
E55.4	8.600	2.400	E55.4	157
R27.2	7.150	2.950	R27.2	158
J1.2	5.600	4.600	J1.2	159
NR4.2	7.400	3.900	NR4.2	160
R29.2	7.300	4.700	R29.2	161
J1.1	5.600	2.400	J1.1	162
E5.2	7.100	2.750	E5.2	163
NR4.7	6.150	2.800	NR4.7	164
NR4.8	7.150	2.800	NR4.8	165
NR4.2	6.100	6.150	NR4.2	166
E43.9	7.100	2.700	E43.9	167
NR4.2	7.300	2.700	NR4.2	168
J2.1	7.800	2.400	J2.1	169
J2.2	7.800	2.400	J2.2	170
J2.13	7.200	2.300	J2.13	171
J2.14	7.200	2.300	J2.14	172
J2.27	6.500	2.400	J2.27	173
J2.28	6.500	2.400	J2.28	174
J2.19	6.500	2.300	J2.19	175
J2.40	5.900	2.400	J2.40	176
J1.3	5.500	2.400	J1.3	177
J1.4	5.500	2.300	J1.4	178
J1.13	5.000	2.400	J1.13	179
J1.14	5.000	2.300	J1.14	180
J1.21	4.600	2.400	J1.21	181
J1.27	4.300	2.400	J1.27	182
J1.28	4.300	2.300	J1.28	183
J1.37	3.800	2.400	J1.37	184

ASSOCIATED PIN ID	X	Y	SIGNAL NAME	LOCATION CODE
J1.38	3.800	2.300	J1.38	185
R23.2	6.050	3.300	R23.2	186
E65.6	9.350	3.300	E65.6	187
E43.6	7.150	2.850	E43.6	188
NR4.2	6.050	4.200	NR4.2	189
E30.2	6.050	4.800	E30.2	190
R31.2	6.050	4.900	R31.2	191
E43.3	7.100	3.000	E43.3	192
R26.2	6.050	4.700	R26.2	193
R40.2	6.100	4.050	R40.2	194
E44.2	6.050	4.100	E44.2	195
R28.2	6.050	4.600	R28.2	196
R6.2	6.050	4.600	R6.2	197
E75.7	10.300	4.000	E75.7	198
E75.6	10.350	2.350	E75.6	199
E75.3	10.300	2.500	E75.3	200
R15.2	6.050	3.500	R15.2	201
E75.4	10.350	2.450	E75.4	202
E75.5	10.300	2.450	E75.5	203
E75.8	10.350	2.250	E75.8	204
R45.2	7.300	4.000	R45.2	205
R8.2	6.900	6.150	R8.2	206
R16.2	7.300	3.500	R16.2	207
R32.2	7.300	4.900	R32.2	208
R33.2	7.300	4.800	R33.2	209
R24.2	6.100	3.350	R24.2	210
E39.12	6.400	3.150	E39.12	211
R10.2	7.450	5.850	R10.2	212
R12.2	6.000	6.150	R12.2	213
R6.2	6.050	3.400	R6.2	214
R17.2	7.300	3.400	R17.2	215
R18.2	7.300	3.400	R18.2	216
R55.2	8.600	2.550	R55.2	217
R33.2	7.150	3.050	R33.2	218
E75.2	10.350	2.550	E75.2	219
E65.2	9.350	2.550	E65.2	220
E75.1	10.100	2.600	E75.1	221
J1.23	4.500	2.400	J1.23	222
R20.2	7.300	3.300	R20.2	223
J1.5	5.400	2.400	J1.5	224
J1.6	5.400	2.300	J1.6	225
J1.7	5.300	2.300	J1.7	226
J1.8	5.200	2.300	J1.8	227
E39.14	6.500	2.400	E39.14	228
E38.10	6.250	5.750	E38.10	229
E45.10	7.100	5.750	E45.10	230
NR4.13	7.100	5.900	NR4.13	231

FROM DE	ASSOCIATED PIN ID	
33	E38.13	6
44	NR4.6	7
55	NR38.6	6
66	J1.32	4
77	E44.4	7
88	E123.18	6
99	E123.14	6
00	E123.3	6
11	E123.7	6
22	NR54.1	6
33	NR52.1	6
44	NR57.1	7
55	NR1.2	7
66	NR55.1	7
77	NR13.2	7
88	NR122.18	6
99	NR35.1	7
00	E122.14	7
11	NR37.1	7
22	NR40.1	6
33	E122.3	6
44	E122.7	6
55	NR38.1	6
66	NR121.18	6
77	NR19.1	7
88	NR25.1	6
99	E121.5	6
00	E121.7	6
11	NR4.2	7
22	NR25.2	6
33	NR42.2	6
44	NR37.2	7
55	NR55.2	7
66	NR21.2	7
77	NR53.2	7
88	NR41.2	7
99	NR35.2	7
00	NR54.2	6
11	NR52.2	6
22	NR38.2	6
33	NR14.2	6
44	NR16.2	6
55	NR59.2	6
66	NR51.2	7
77	NR57.2	7
88	NR39.2	7
99	NR19.2	7
00	E121.14	7
11	E121.7	7
22	E121.12	6

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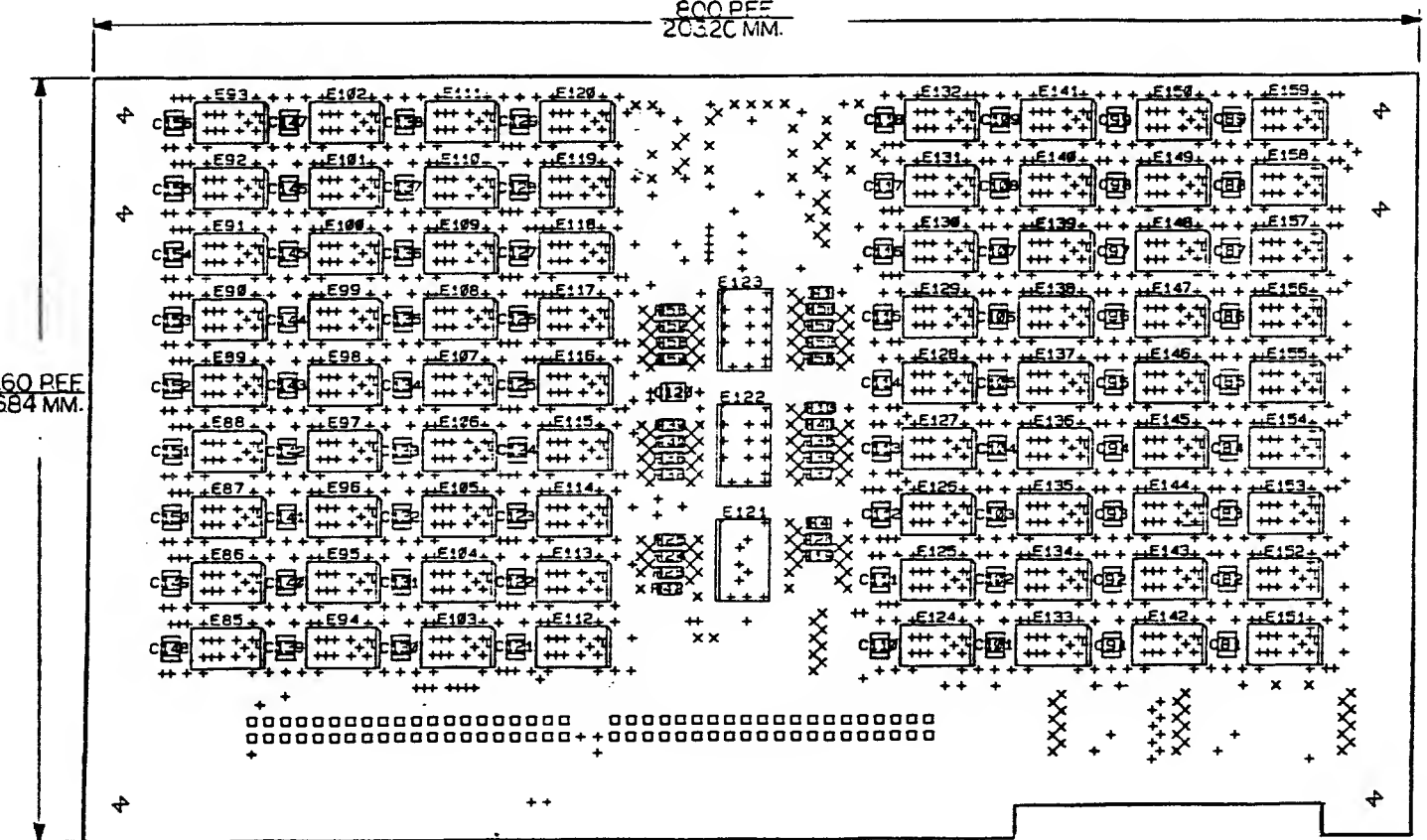
DEC DIGITAL EQUIPMENT CORPORATION

3-1-20691751710
11/22/81

SIDE 2 VIEW

800 PEF
203.20 MM.

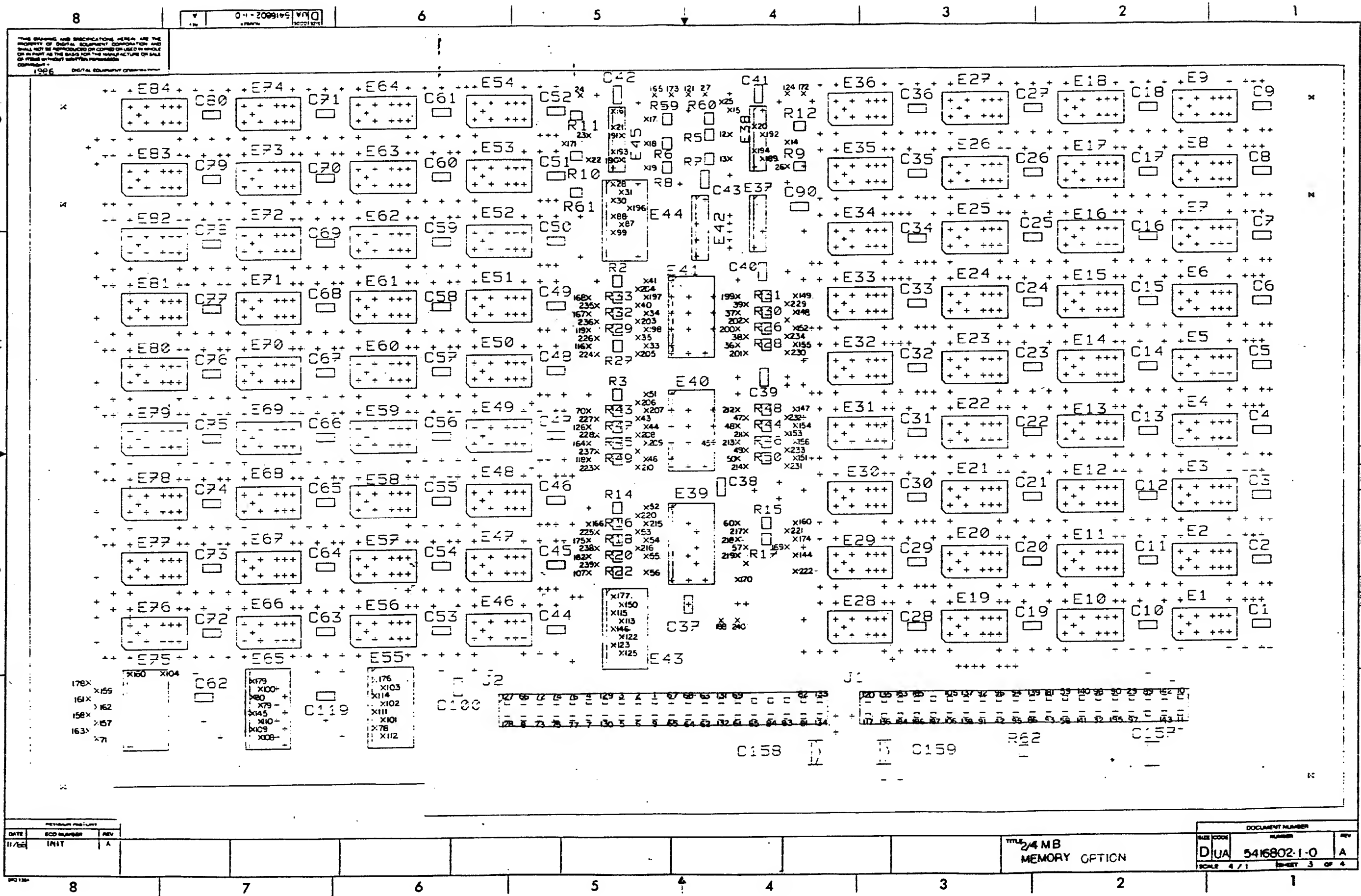
460 PEF
1168.4 MM.



REVISION HISTORY		
DATE	ECO NUMBER	REV
11/22/81	INIT	A

TITLE 2/4 MB
MEMORY OPTION

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	5416802-1-0	A
SCALE 2 / 1		SHEET 2 OF 3



REVISION HISTORY			DOCUMENT NUMBER		
DATE	ECO NUMBER	REV	SIZE CODE	NUMBER	REV
11/75	INIT	A	DUA	5416802-1-0	A
			SCALE 4/1 SHEET 3 OF 4		

8

V

0-1-2099179

6

5

4

3

2

1

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(DIMENSIONS ARE GIVEN RELATIVE TO "H" MASTER 0)

ASSOCIATED PIN ID	E	I	SIGNAL NAME	LOCATION CODE
J2.19	6.900	2.400	MDAL17 H	1
J2.17	7.000	2.400	MDAL19 H	2
J2.15	7.100	2.400	MDAL21 H	3
J2.11	7.300	2.400	MDAL23 H	4
J2.16	7.100	2.300	MDAL20 H	5
J2.18	7.000	2.300	MDAL18 H	6
J2.12	7.300	2.300	MDAL22 H	7
J2.4	7.700	2.300	MDAL30 H	8
J2.20	6.900	2.300	MDAL16 H	9
J1.39	3.700	2.400	-SV4	10
J1.40	3.700	2.300	-SV4	11
E38.4	6.450	5.900	E38.4	12
E38.7	6.400	5.750	E38.7	13
E38.12	6.100	5.450	E38.12	14
E35.1	6.450	5.350	E38.1	15
E45.1	7.150	6.350	E45.1	16
E45.15	6.950	6.000	E45.15	17
E45.12	6.950	5.850	E45.12	18
E44.9	6.450	5.700	E45.9	19
E36.3	6.300	5.950	E38.3	20
E45.3	7.150	5.950	E45.3	21
E45.7	7.300	5.750	E45.7	22
E45.4	7.300	5.900	E45.4	23
R11.2	7.350	6.150	MDAL40 L	24
R2	6.500	6.100	R2	25
E38.9	6.100	5.700	E38.9	26
E7.2	6.600	6.150	MDAL31 L	27
R44.1	7.150	5.600	R44.1	28
J1.33	4.000	2.400	MDAL3	29
R44.3	7.150	4.500	MDAL3	30
R44.2	7.100	5.550	R44.2	31
J1.30	4.200	2.300	MDAL3	32
R41.9	6.950	4.600	R41.9	33
R41.5	6.950	4.600	R41.5	34
R29.1	7.000	4.650	R29.1	35
E41.12	6.400	4.600	E41.12	36
E41.16	6.400	4.800	E41.16	37
R26.1	6.350	4.650	R26.1	38
R31.1	6.350	4.850	R31.1	39
R33.1	7.000	4.850	R33.1	40
E41.1	6.950	5.000	E41.1	41
J1.18	4.800	2.300	MDAL202 H	42
R43.1	7.000	4.150	R43.1	43
R40.5	6.950	4.100	R40.5	44

ASSOCIATED PIN ID	E	I	SIGNAL NAME	LOCATION CODE
E40.14	6.550	4.200	E40.14	45
E40.9	6.950	3.900	E40.9	46
R48.1	6.350	4.150	R48.1	47
E40.16	6.400	4.100	E40.16	48
R46.1	6.350	4.150	R46.1	49
R40.12	6.400	3.900	E40.12	50
E40.1	6.950	4.300	E40.1	51
E39.1	6.950	3.500	E39.1	52
R16.1	7.000	3.450	R16.1	53
E39.5	6.950	3.450	E39.5	54
E39.7	6.950	3.300	E39.7	55
E39.4	6.950	3.200	E39.4	56
R17.1	6.350	3.350	R17.1	57
J1.26	4.400	2.300	LASO L	58
J1.25	4.400	2.400	CAS1 L	59
E39.18	6.400	3.500	E39.18	60
J2.30	6.400	2.300	MDAL08 H	61
J2.26	6.600	2.300	MDAL10 H	62
J2.25	6.600	2.400	MDAL11 H	63
J2.24	6.700	2.100	MDAL12 H	64
J2.22	6.800	2.100	MDAL14 H	65
J2.1	7.700	2.400	MDAL31 H	66
J2.21	6.800	2.400	MDAL15 H	67
J2.23	6.700	2.400	MDAL13 H	68
J2.29	6.400	2.430	MDAL29 H	69
R43.2	7.300	4.200	MDAL27 H	70
E75.4	10.300	2.200	MDAL15 H	71
J2.5	7.600	2.400	MDAL29 H	72
J2.6	7.600	2.300	MDAL28 H	73
J2.7	7.500	2.400	MDAL27 H	74
J2.8	7.500	2.300	MDAL26 H	75
J2.9	7.400	2.400	MDAL25 H	76
J2.10	7.400	2.300	MDAL24 H	77
E75.8	8.600	2.250	MDAL30 H	78
E65.5	9.300	2.400	MDAL03 H	79
E65.4	9.350	2.450	MDAL02 H	80
J2.36	6.000	2.300	MDAL00 H	81
J2.37	6.000	2.400	MDAL01 H	82
J2.36	6.100	2.300	MDAL02 H	83
J2.35	6.100	2.400	MDAL06 H	84
J2.31	6.300	2.400	MDAL07 H	85
J1.22	4.600	2.300	J1.22	86
R44.5	7.100	5.350	R44.5	87
R44.5	7.150	5.400	R44.5	88
J1.35	3.900	2.400	YDIE L	89
J1.31	4.100	2.400	SNAS L	90
J1.16	4.900	2.300	MDAL04 H	91
J1.15	4.900	2.400	MDAL05 H	92
J1.24	4.500	2.300	CAS2 L	93

ASSOCIATED PIN ID	E	I	SIGNAL NAME	LOCATION CODE
J1.19	8.700	2.400	MDAL01 H	94
J1.20	4.700	2.300	MDAL00 H	95
J1.17	4.500	2.400	MDAL03 H	96
J1.34	4.300	2.300	VAS L	97
J1.24	4.200	2.400	MDAL2	98
E44.7	7.450	5.300	MDAL2	99
E65.3	4.300	2.500	MDAL01 H	100
E55.7	4.550	2.300	MDAL29 H	101
E55.5	4.550	2.400	MDAL27 H	102
E55.3	4.550	2.500	MDAL25 H	103
E75.19	4.900	2.600	E75.19	104
J1.11	5.100	2.400	MDAL207 H	105
J1.12	5.100	2.300	MDAL206 H	106
R22.2	7.300	3.200	MDAL03 L	107
E65.9	9.300	2.270	MDAL07 H	108
E65.4	9.350	2.250	MDAL08 H	109
E65.7	9.300	2.300	MDAL05 H	110
E55.6	8.600	2.350	MDAL28 H	111
E55.9	6.550	2.200	MDAL31 H	112
R43.5	7.100	2.900	MDAL19 H	113
E55.4	8.600	2.400	MDAL25 H	114
E65.4	7.450	2.950	MDAL18 H	115
R27.2	7.300	4.600	MDAL21 H	116
J1.2	5.600	2.300	-SVB	117
R49.2	7.500	3.900	MDAL25 H	118
R29.2	7.300	4.700	MDAL22 H	119
J1.1	5.600	2.400	-SVT	120
E5.7	6.700	6.150	MDAL41 L	121
R41.7	7.100	2.500	MDAL21 H	122
R41.8	7.150	2.750	MDAL22 H	123
R9.2	6.100	6.150	MDAL21 L	124
R41.9	7.100	2.700	MDAL23 H	125
R47.2	7.100	4.100	MDAL24 H	126
J2.1	7.800	2.400	GND	127
J2.2	7.800	2.300	GND	128
J2.13	7.200	2.400	GND	129
J2.14	7.200	2.300	GND	130
J2.27	6.500	2.400	GND	131
J2.28	6.500	2.300	GND	132
J2.19	5.900	2.400	GND	133
J2.40	5.900	2.300	GND	134
J1.3	5.500	2.400	GND	135
J1.4	5.500	2.300	GND	136
J1.13	5.000	2.400	GND	137
J1.14	5.000	2.300	GND	138
J1.21	4.600	2.400	GND	139
J1.27	4.300	2.400	GND	140
J1.26	4.300	2.300	GND	141
J1.37	3.800	2.400	GND	142

ASSOCIATED PIN ID	E	I	SIGNAL NAME	LOCATION CODE
J1.38	3.800	2.300	GND	143
R23.2	6.050	3.300	MDAL04 L	144
E65.6	9.350	2.350	MDAL04 H	145
E43.6	7.150	2.950	MDAL20 H	146
R4.42	6.050	4.200	MDAL14 H	147
R30.2	6.050	4.200	MDAL13 H	148
R31.2	6.050	4.900	MDAL10 H	149
E43.3	7.100	3.000	MDAL16 H	150
R26.2	6.050	3.900	MDAL11 H	151
R40.2	6.100	4.700	MDAL11 H	152
R44.2	6.050	4.050	MDAL37 H	153
R28.2	6.050	4.600	MDAL17 H	154
R46.2	6.050	4.600	MDAL12 H	155
E75.7	10.300	2.300	MDAL15 H	156
E75.6	10.350	2.350	MDAL13 H	157
E75.3	10.300	2.500	MDAL12 H	158
R15.2	6.050	3.500	MDAL09 H	159
E75.4	10.350	2.450	MDAL08 H	160
E75.5	10.300	2.400	MDAL07 H	161
E75.8	10.350	2.250	MDAL14 H	162
R45.2	7.300	4.000	MDAL14 H	163
R8.2	6.900	6.150	MDAL26 H	164
R16.2	7.300	3.500	MDAL26 H	165
R32.2	7.300	4.800	MDAL20 H	166
R33.2	7.300	4.900	MDAL23 H	167
R24.2	6.100	3.350	MDAL23 H	168
E39.12	6.400	3.150	MDAL23 H	169
R10.2	7.450	5.850	MDAL23 H	170
R12.2	6.000	6.150	MDAL23 H	171
R6.2	6.800	6.150	MDAL23 H	172
R17.2	6.050	3.400	MDAL23 H	173
R18.2	7.300	3.400	MDAL23 H	174
E55.2	8.600	2.550	MDAL23 H	175
E43.2	7.150	3.050	MDAL23 H	176
E75.2	10.350	2.550	MDAL23 H	177
R05.2	9.350	2.550	MDAL23 H	178
E75.1	10.100	2.600	MDAL23 H	179
J1.23	4.500	2.400	MDAL23 H	180
R20.2	7.300	3.300	MDAL23 H	181
J1.5	5.400	2.400	MDAL23 H	182
J1.6	5.400	2.300	MDAL23 H	183
J1.7	5.300	2.400	MDAL23 H	184
J1.3	5.300	2.300	MDAL23 H	185
R1.10	5.200	2.300	MDAL23 H	186
E39.14	6.400	2.900	MDAL23 H	187
E38.10	6.250	5.750	MDAL23 H	188
E38.10	6.250	5.750	MDAL23 H	189
E38.10	6.250	5.750	MDAL23 H	190
E38.13	7.100	5.900	MDAL23 H	191

ASSOCIATED PIN ID	E	I	SIGNAL NAME	LOCATION CODE
R38.13	6.250	5.900	E38.13	192
R45.6	7.150	5.800	E45.6	193
E38.6	6.300	5.800	E38.6	194
J1.32	4.100	2.300	MDAL23 H	195
E44.4	7.050	5.450	MDAL23 H	196
E123.18	6.950	4.900	E123.18	197
E123.14	6.950	4.700	E123.14	198
E123.3	6.900	4.900	E123.3	199
E123.7	6.400	4.700	E123.7	200
R54.1	6.350	4.50	R54.1	201
R52.1	6.350	4.750	R52.1	202
R57.1	7.000	4.750	R57.1	203
R1.2	7.000	4.950	R1.2	204
R55.1	7.000	4.950	R55.1	205
R13.2	7.000	4.250	R13.2	206
R122.18	6.950	4.200	R122.18	207
R35.1	7.000	4.050	R35.1	208
E122.14	6.950	4.000	E122.14	209
R37.1	7.000	3.950	R37.1	210
R40.1	6.350	4.050	R40.1	211
E122.3	6.400	4.200	E122.3	212
E122.7	6.400	4.00	E122.7	213
R38.1	6.350	3.850	R38.1	214
E121.18	6.950	3.500	E121.18	215
R19.1	7.000	3.550	R19.1	216
R25.1	6.350	3.450	R25.1	217
E121.5	6.400	3.400	E121.5	218
E121.7	6.400	3.300	E121.7	219
R4.2	7.000	3.550	R4.2	220
R25.2	6.100	3.450	MDAL23 L	221
R42.2	6.050	3.200	MDAL23 L	222
R37.2	7.250	3.850	MDAL23 H	223
R55.2	7.250	4.550	MDAL23 H	224
R21.2	7.250	3.450	MDAL23 H	225
R53.2	7.250	4.650	MDAL23 H	226
R41.2	7.250	4.150	MDAL23 H	227
R35.2	7.250	4.050	MDAL23 H	228
R56.2	6.100	4.850	MDAL23 H	229
R52.2	6.100	4.550	MDAL23 H	230
R38.2	6.100	3.450	MDAL23 H	231
R42.2	6.100	4.150	MDAL23 H	232
R36.2	6.100	3.950	MDAL23 H	233
R58.2	6.100	4.650	MDAL23 H	234
R51.2	7.250	4.350	MDAL23 H	235
R47.2	7.250	4.750	MDAL23 H	236
R39.2	7.250	3.950	MDAL23 H	237
R1.2	7.250	3.750	MDAL23 H	238
E121.14	7.250	3.250	MDAL23 L	239
E121.12	6.400	2.900	MDAL23 L	240

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIA REV	DESCRIPTION	QTY PER VAR/REV				REFERENCE DESIGNATORS
						AF A2	AH A2	AP A2	BF A2	
1	1	D-DD-5016001-0-0	30-16001-01		CIRCUIT DRILL AND ETCH	1	1	1	1	
2	2		13-27958-01		0.22 MFD 50V +/-20% Z5U CE	-	-	-	156	C1-C156
			CONT			83	83	83	-	C1-C30,C90,C100,C119
3	3		10-24455-18		10 MFD 15V +/-10% CHI	3	3	3	3	C157-C159
4	4		12-19055-05		CONN,P+S 40POS(2X20)	2	2	2	2	J1,J2
5	5		13-23825-11		27.0 .25 W 5.0 % CHIP	-	-	-	53	R5-R12,R15-R58,R62
			CONT			30	30	30	-	R5-R12,R15-R18,R20,R22,R26-R33, CONT R43-R50
6	6		13-23828-01		100.0 .25 W 1.0 % CHIP	-	-	-	9	R1-R4,R13,R14,R59-R61
			CONT			6	6	6	-	R2,R3,R14,R59-R61
7	7		19-20441-02		74F245 TRANSCEIVER,BI-DIREC	4	4	4	4	E43,E55,E65,E75
8	8		19-20572-02		74F244 BUFFER/LINE DRIVER,0	-	-	-	6	E39-E41,E121-E123
			CONT			3	3	3	-	E39-E41
9	9		19-21010-03		74F373 OCTAL TRANSPARENT LA	1	1	1	1	E44
10	10		19-21312-02		74F32 OR GATE,QUAD,2-IN	1	1	1	1	E37
11	11		19-21316-02		74F138D DECODER/DEMUX,10F9,S	1	1	1	1	E42
12	12		19-21330-02		74F257 DATA SEL/MUX,QUAD 2T	2	2	2	2	E38,E45
13	13		21-21413-22		41256 RAM 256KX1,DYNAMIC M	-	72	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84
14	14		21-21414-22		256KX1,DYNAMIC 150NS	-	-	-	144	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
			CONT			72	-	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84
15	15		21-22422-22		256KX1 MOS RAM 150NS 1	-	-	72	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E84

- 1 GEN: 5416802-AA IS THE PRIMARY VARIATION OF THE 2MB MODULE.
2 GEN: 5416802-BA IS THE PRIMARY VARIATION OF THE 4 MB MODULE
3 GEN: 5416802-AH IS A MODULE USING NEC 256K PLCC DRAMS
4 GEN: 5416802-AP IS A MODULE USING MITSUBISHI 256K PLCC DRAMS

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF 3		DRN: J. CUNNINGHAM		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 31-JUL-85		TITLE PARTS LIST		
---	INITIAL	A	[CA]	AF,AH,AP,BF	[CM]	CHK'D: D. DROZD	2 / 4 MB MEMORY OPTION		
			[CB]	SH,BP	[CN]	DATE: 31-JUL-85			
			[CC]		[CP]	DES.ENG: G. LORD			
			[CD]		[CQ]	DATE: 31-JUL-85	DOCUMENT NUMBER		
			[CE]		[CR]		SIZE	CODE	
			[CF]		[CS]	RESP.ENG.: G. LORD	NUMBER		
			[CH]		[CT]	DATE: 27-JAN-86	K	PL	
			[CJ]		[CV]		5416802-0-DBP		
			[CK]		[CW]	MFG.ENG: D. TAYLOR	RELEASE DATE: 04-FEB-87		
			[CL]		[CY]	DATE: 03-AUG-86	RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5416802		D-UA-5416802-2-0		B-DD-5416802-0-0		GH057A.PLS		38	
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*** DOCUMENT CONVERTED TO VAX ***									

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PARTS LIST

SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER AF A2	VAR/REV AH A2	BF A2	REFERENCE DESIGNATORS
------	------	--------------	-------------	------------	-------------	---------------------	---------------------	----------	-----------------------

5	GEN:	5416802-0H	IS A MODULE USING NEC 256K PLCC DRAMS						
6	GEN:	5416802-7P	IS A MODULE USING MITSUBISHI 256K PLCC DRAMS						
7	GEN:	5416802-AF	IS A MODULE USING HITACHI 256K PLCC DRAMS.						
8	GEN:	5416802-0F	IS A MODULE USING HITACHI 256K DRAMS.						

D	I	G	I	T	A	L	TITLE	2 / 4 MB MEMORY OPTION	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5416802-0-DBP	A

AUTOMATED BY VAXKPL (V1.3)

P A R T S L I S T

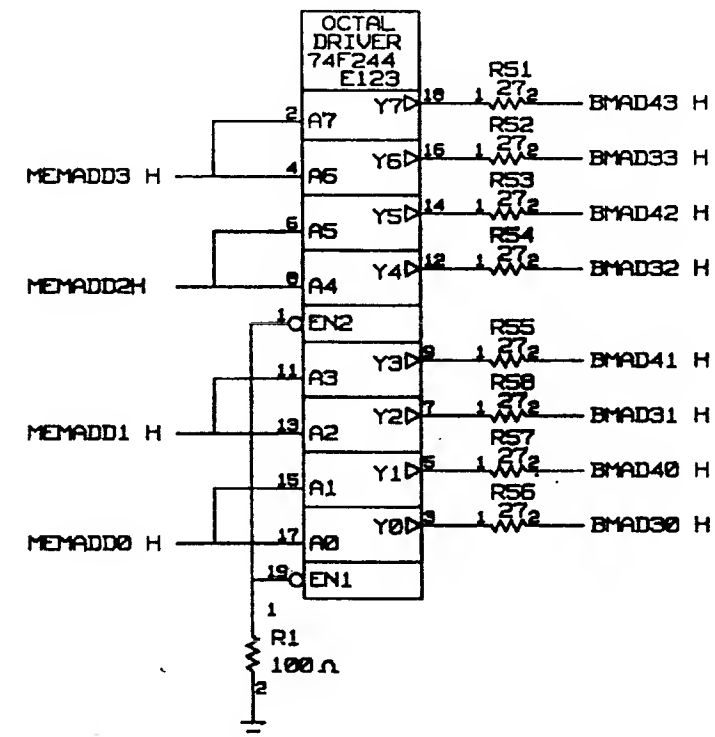
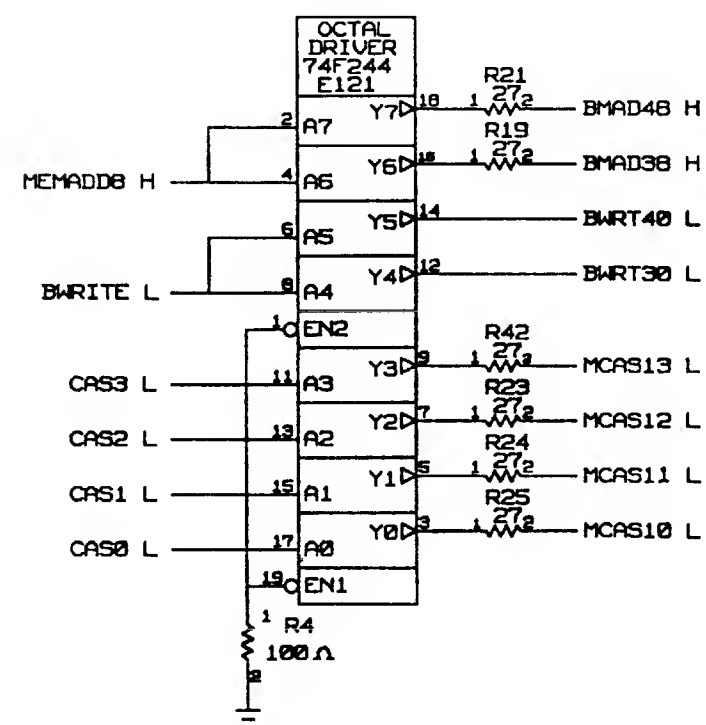
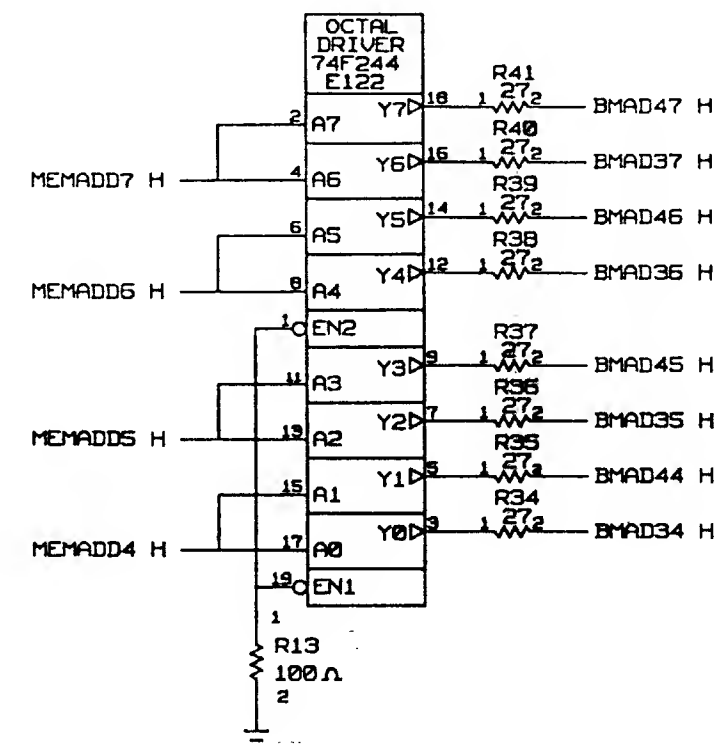
SHEET 01 OF 51

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV		REFERENCE DESIGNATORS
						2H A2	3P A2	
1	1	D-DD-5015501-0-0	50-16301-01		CIRCUIT DRILL AND ETCH	1	1	
2	2		10-27953-01		0.22 MFD 50V +/-20% 250 CE	156	156	C1-C156
3	3		10-24455-13		10 MFD 15V +/-10% CHI	3	3	C157-C159
4	4		12-19063-05		CONN,P+S 40POS(2X20)	2	2	J1,J2
5	5		13-23523-11		27.0 .25 W 5.0 % CHIP	53	53	R5-R12,R15-R58,R62
6	6		13-23523-01		100.0 .25 W 1.0 % CHIP	9	9	R1-R4,R13,R14,R59-R61
7	7		19-20441-02		74F245 TRANSCEIVER,BI-DIREC	4	4	E43,E55,E65,E75
8	8		19-20572-02		74F244 BUFFER/LINE DRIVER,0	6	6	E39-E41,E121-E123
9	9		19-21010-03		74F373 OCTAL TRANSPARENT LA	1	1	E44
10	10		19-21312-02		74F32 OR GATE,QUAD,2-IN	1	1	E37
11	11		19-21316-02		74F138D DECODER/DEMUX,10F8,S	1	1	E42
12	12		19-21330-02		74F257 DATA SEL/MUX,QUAD 2T	2	2	E38,E45
13	13		21-21413-22		41256 RAM 256KX1,DYNAMIC M	144	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
14	14		21-21414-22		256KX1,DYNAMIC 150NS	-	-	E1-E36,E46-E54,E56-E64,E66-E74, CONT E76-E120,E124-E159
15	15		21-22422-22		256KX1 MOS RAM 150NS 1	-	144	

- 1 GEN: 5416802-AA IS THE PRIMARY VARIATION OF THE 2MS MODULE.
2 GEN: 5416302-BA IS THE PRIMARY VARIATION OF THE 4 MB MODULE
3 GEN: 5416802-AH IS A MODULE USING NEC 256K PLCC DRAMS
4 GEN: 5416802-AP IS A MODULE USING MITSUBISHI 256K PLCC DRAMS
5 GEN: 5416802-BH IS A MODULE USING NEC 256K PLCC DRAMS
6 GEN: 5416802-BP IS A MODULE USING MITSUBISHI 256K PLCC DRAMS
7 GEN: 5416802-AF IS A MODULE USING HITACHI 256K PLCC DRAMS.
8 GEN: 5416302-BF IS A MODULE USING HITACHI 256K DRAMS.

REVISION HISTORY		KPL MODULE FORMAT		SECTION B OF B		DRN: J. CUNNINGHAM	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 31-JUL-85		D I G I T A L
INITIAL		A	[A] AF,AH,AP,BF	[M]	CHK'D: D. DROZD	TITLE PARTS LIST	
			[B] BH,BP	[N]	DATE: 31-JUL-85	2 / 4 MB MEMORY OPTION	
			[C]	[P]	DES.ENG: G. LORD		
			[D]	[Q]	DATE: 31-JUL-85	DOCUMENT NUMBER	
			[E]	[R]	RESP.ENG.: G. LORD	SIZE	CODE
			[F]	[S]	DATE: 27-JAN-86	NUMBER	
			[H]	[T]	MFG.ENG: D. TAYLOR	K	PL
			[J]	[V]	DATE: 08-AUG-86	5416802-0-DBP	
			[K]	[W]		RELEASE DATE: 04-FEB-87	
			[L]	[Y]		RELEASE STATUS: RELEASED	
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:
5416802			D-UA-5416302-2-0		B-DD-5416802-0-0		GH057A.PLS
							EDIT #
							38
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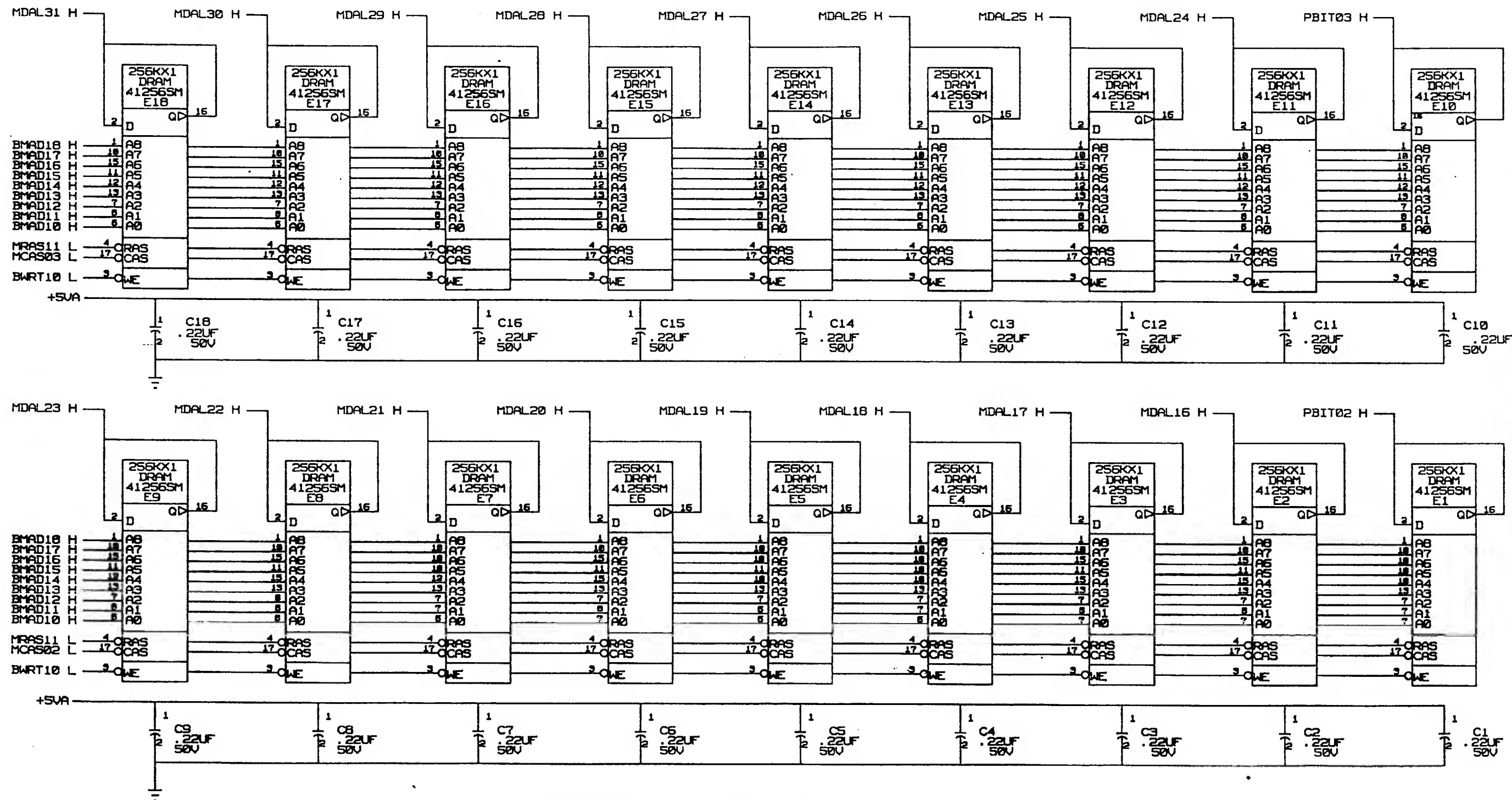
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WORK LEADS							
SHEET	2 of 11						
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K-DD-5416802-0-0				B	CS	5416802-0-1	A

B	CS	5416802-0-1	A	7
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NAME	G. LORD	DATE	8/7/85	TITLES			2/4 MBYTE MEMORY OPTION
BOARD LOCATION							
SHEET	3 of 11						
TOP DOCUMENT NUMBER				SIZE	CODE	NUMBER	REV.
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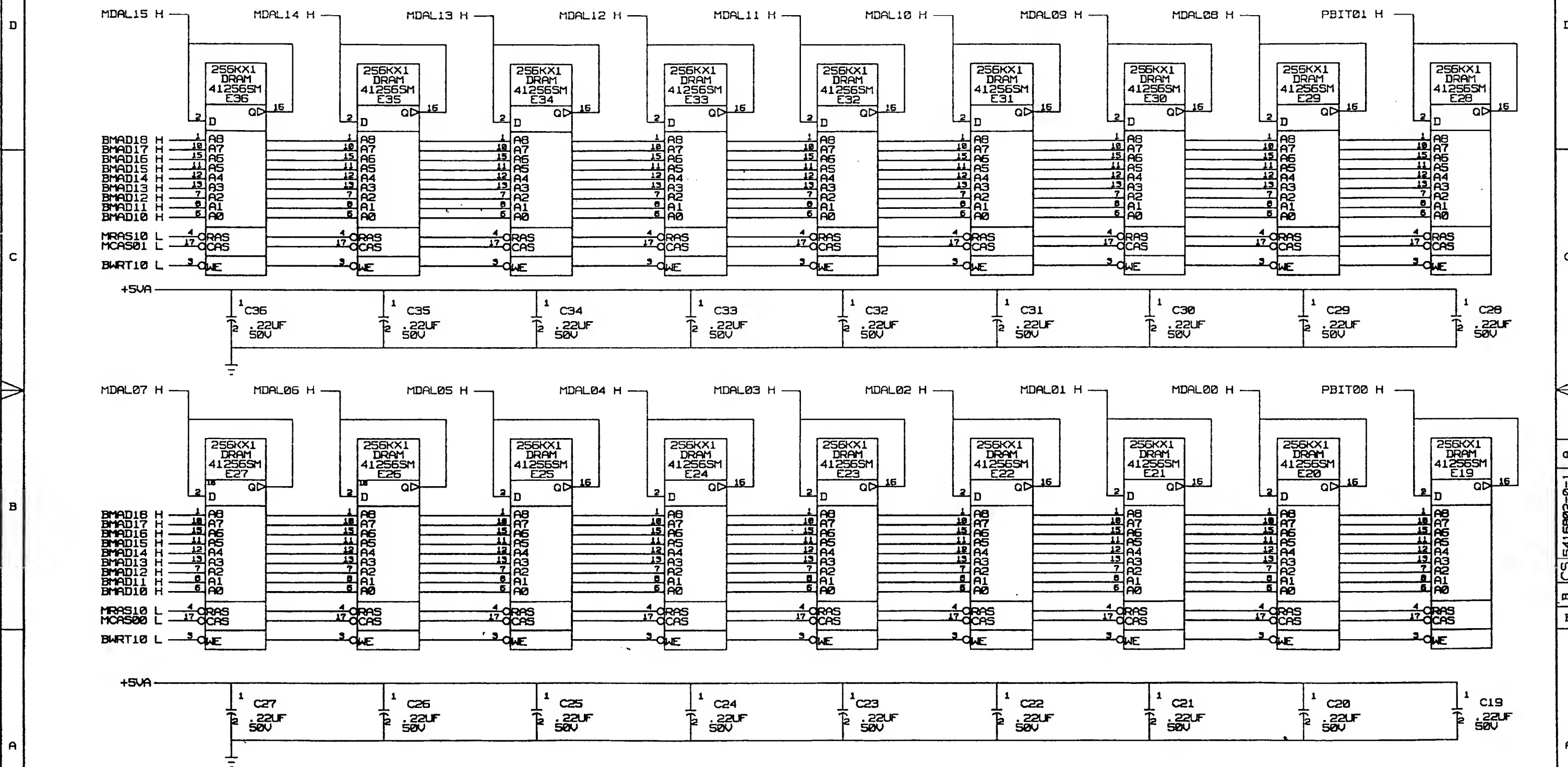


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UCC IS CONNECTED TO +5VA

BANK 1 BITS <31:16>

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REVISION	4 of 11	SIZE	B	CODE	CS
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	NUMBER	5416802-0-1	REV.	A

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DESIGN LOCATION	5 of 11	SIZE	B CS	NUMBER	5416802-0-1
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	REV.	A		

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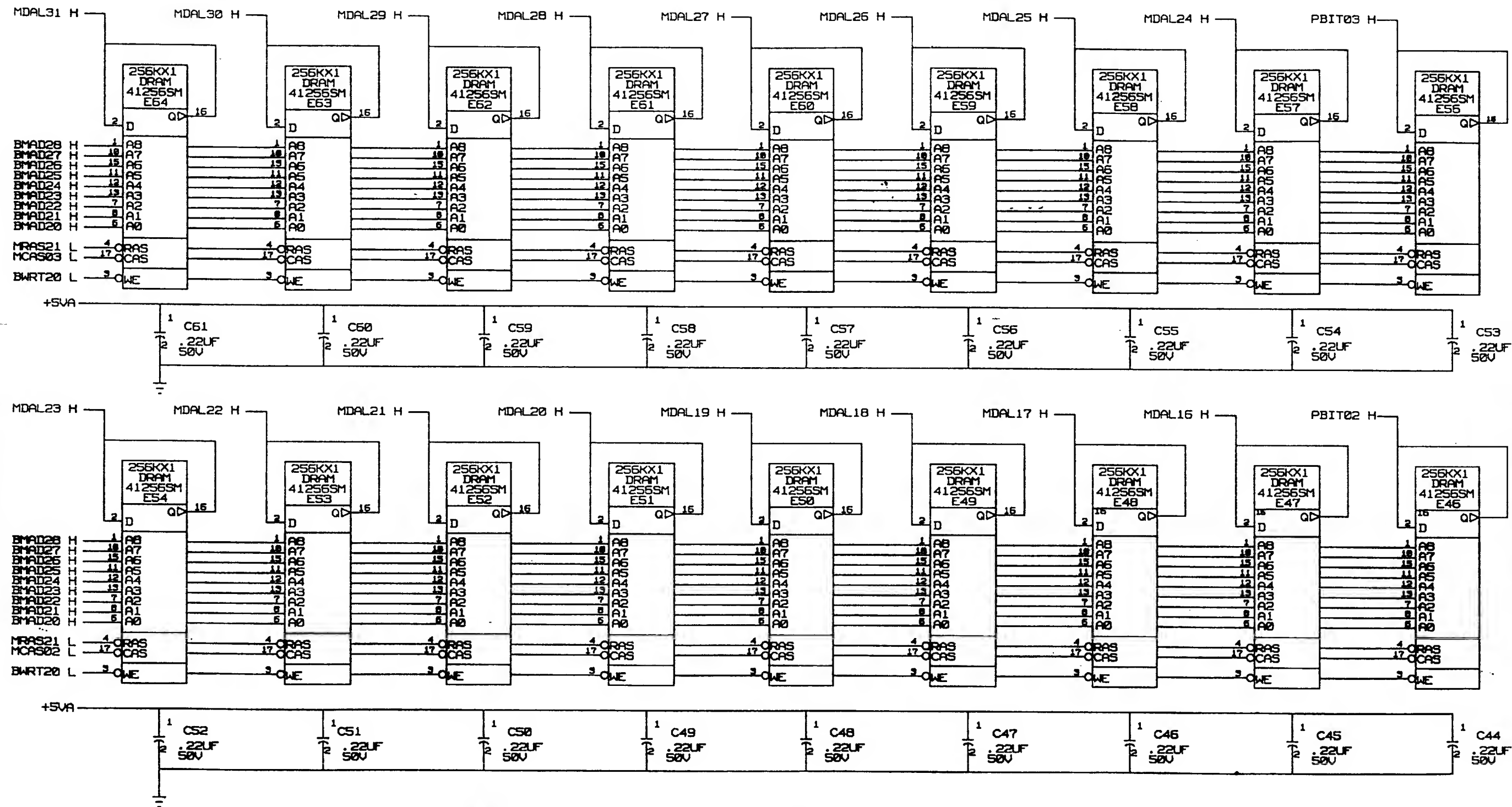
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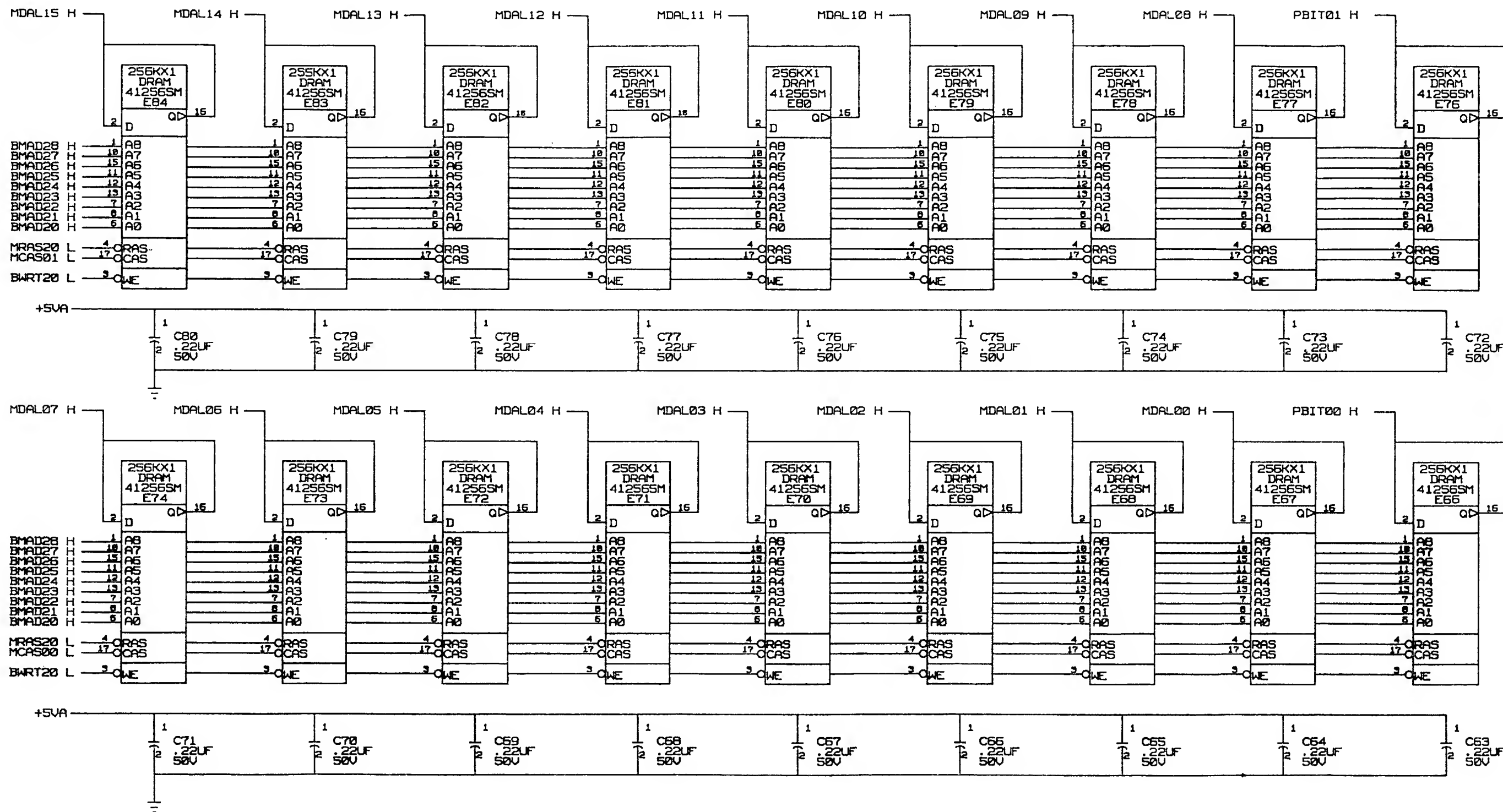


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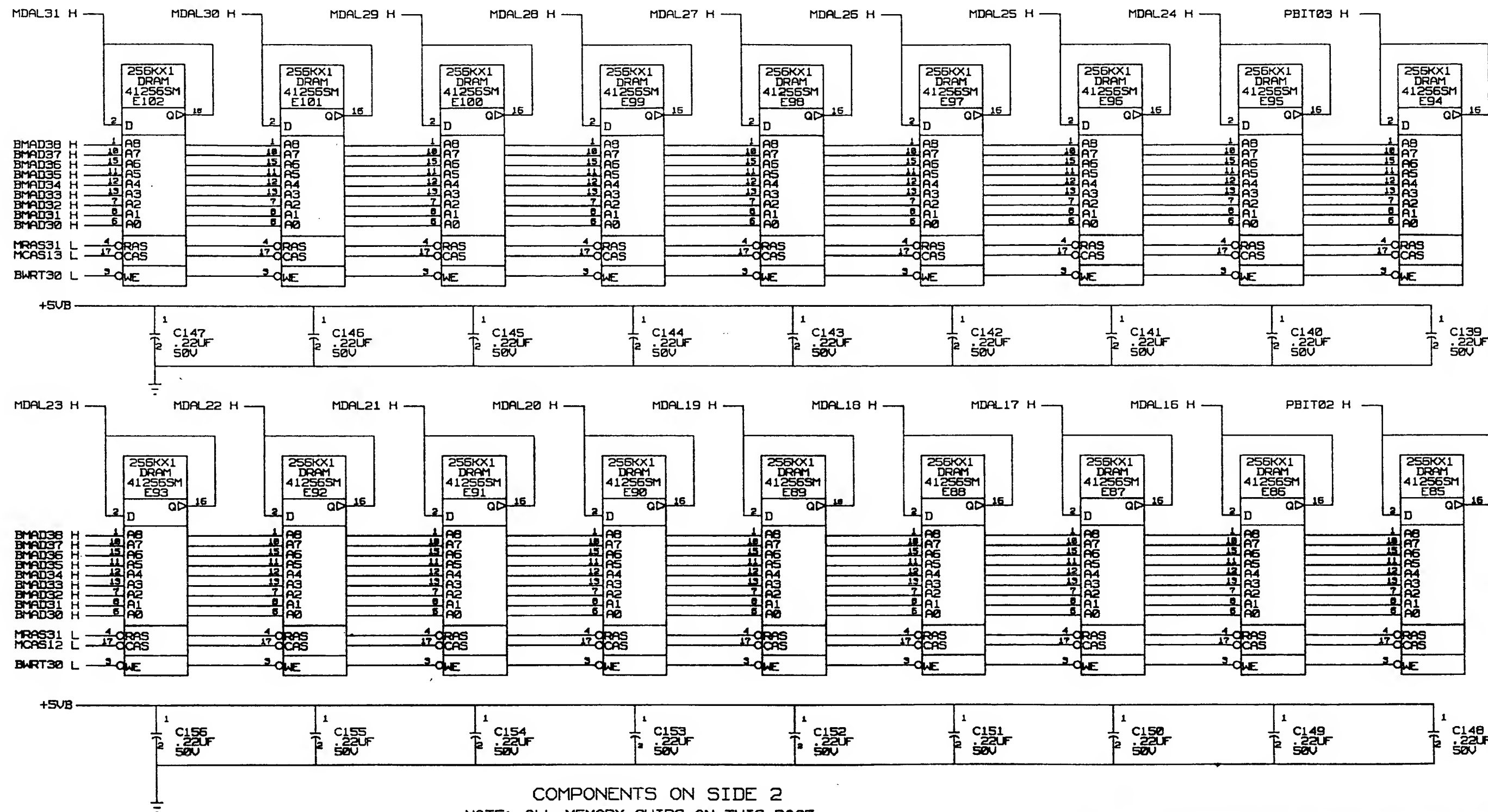
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REVISION	1	DATE	8/8/85	BY	G. LORD
SHEET	7	OF	11	SIZE	B
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	CODE	CS	NUMBER	5416802-0-1
				REV.	A

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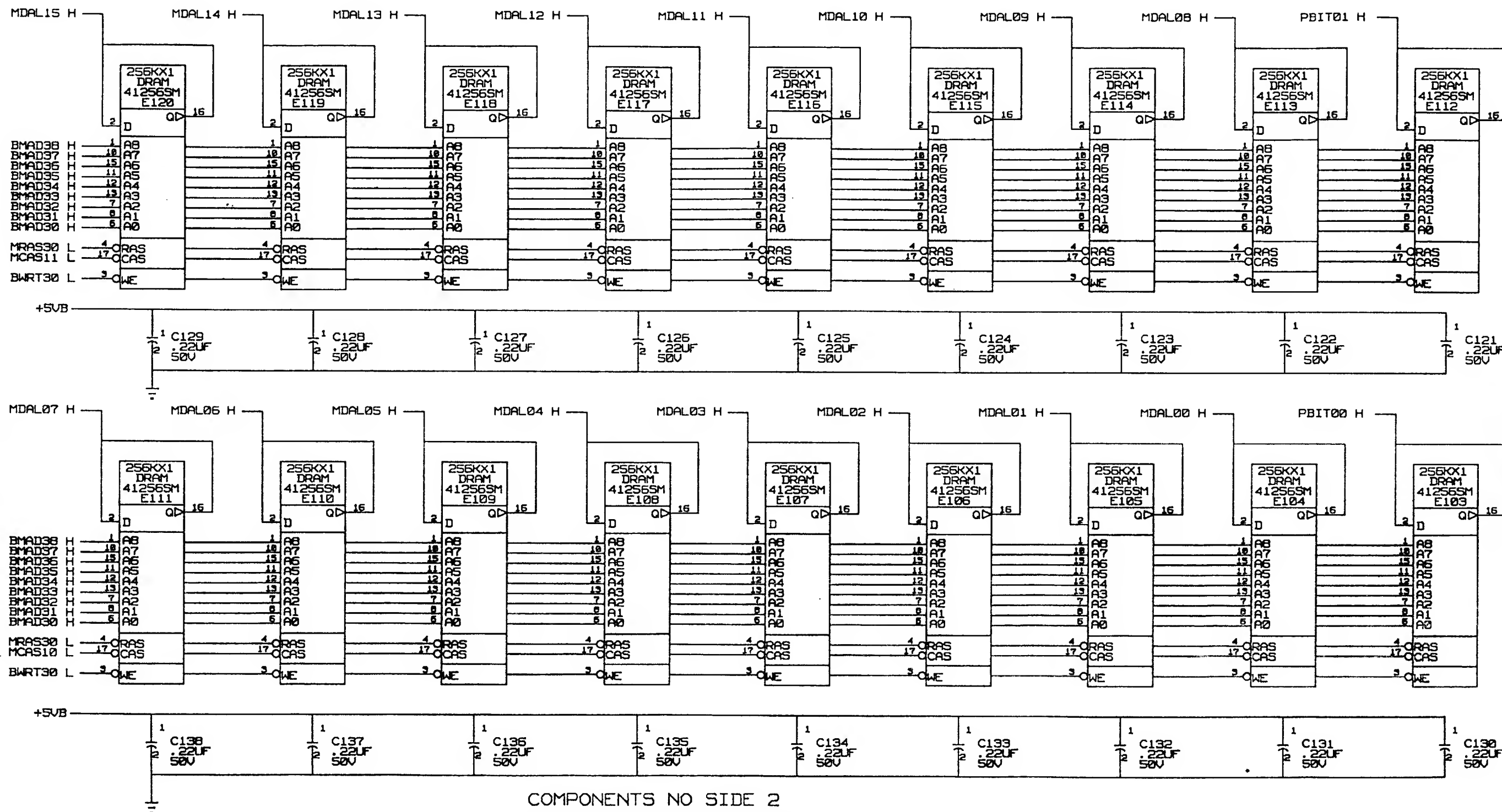


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BANK 3 BITS <31:16>

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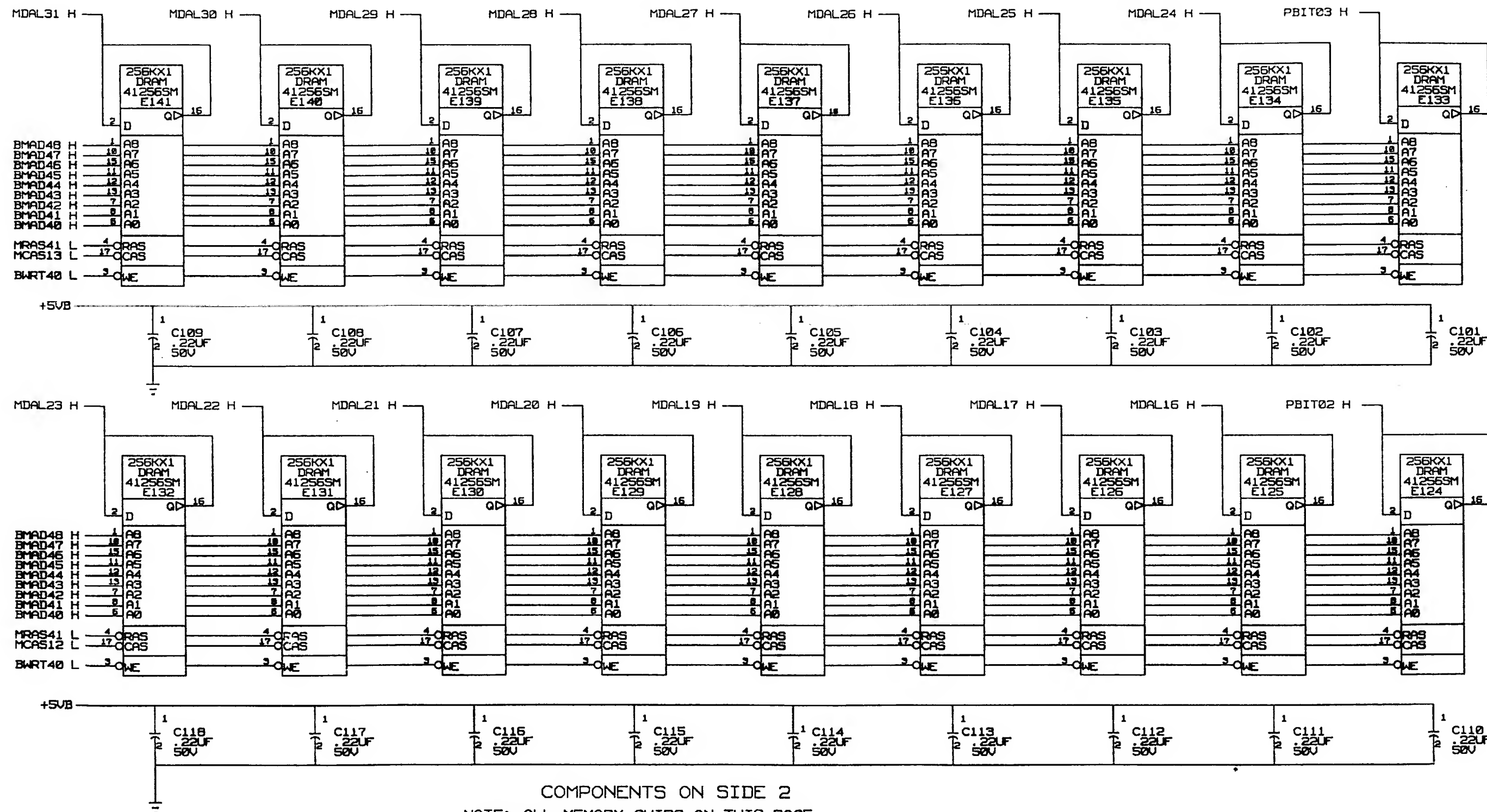
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BOARD LOCATION	9 of 11				
SHEET	9 of 11				
TOP DOCUMENT NUMBER	K-DD-5416802-0-0			SIZE	B
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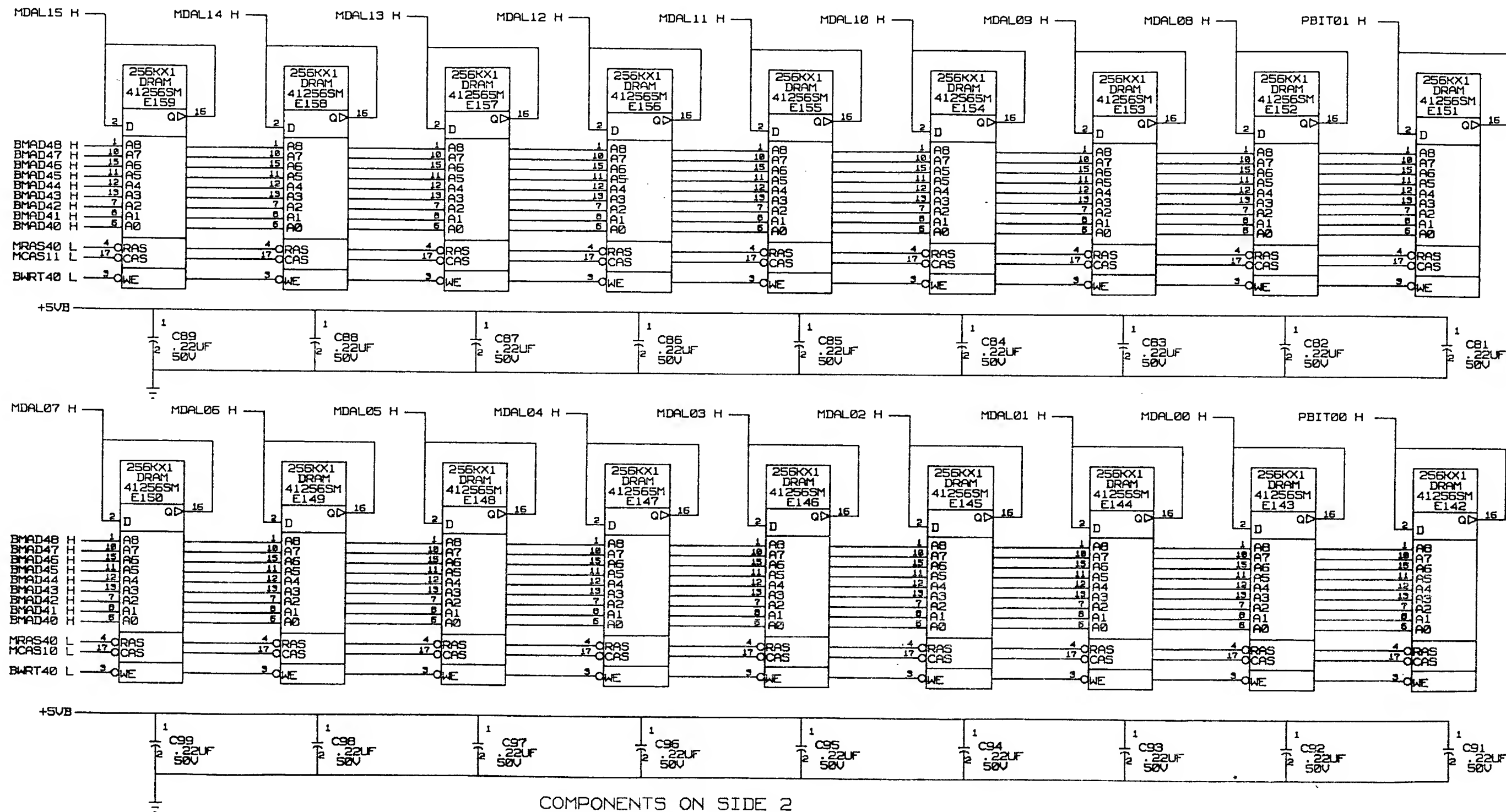
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DESIGN	G. LORD	DATE	8/8/86	TITLE	2/4 MBYTE MEMORY OPTION
DESIGN	10 of 11	SIZE	B	CODE	CS
TOP DOCUMENT NUMBER	K-DD-5416802-0-0	NUMBER	5416802-0-1	REV.	A

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